

In the Claims:

1 - 9 (canceled)

10. (new) An automatic, self-contained device for detecting toxic agents in a water supply comprising:
- a. an analyzer for detecting at least one toxic agent in a water sample, said analyzer comprising a fluorometer for measuring photosynthetic activity of naturally occurring, indigenous photosynthetic organisms in the water and introduced into said analyzer with the water sample;
 - b. a first reservoir for holding the water sample for a first pre-selected period of time before the water sample is introduced into said analyzer and for preventing settled sediment from entering said analyzer, said first reservoir delaying the analysis of a water sample for a sufficient time to allow settling of sediment contained within the water sample, said first reservoir having an inlet for introducing water into said first reservoir, a sampling tube for sampling water contained in said first reservoir above a predetermined sediment level, an air purge tube for allowing air to escape from said first reservoir, and a drain for exhausting sediment and water from said first reservoir;
 - c. a second reservoir for holding the water sample for a second pre-selected period of time before the water sample is introduced into said analyzer, said second reservoir delaying the analysis of a water sample for a sufficient time to allow completion of a dark adaptation cycle of photosynthetic organisms contained within the water sample, said second reservoir having an inlet in fluid communication with said sampling tube and an outlet in fluid communication with said analyzer; and,

- d. an electronics package for controlling the flow of consecutive water samples through said first reservoir so that less than 10% of a newest water sample is mixed with water from a previous sample in order to increase sensitivity of fluorescence analysis while decreasing total time required to perform fluorescence analysis, controlling the flow of water sample through said second reservoir and said analyzer, controlling said analyzer, discharging water samples from said analyzer, analyzing raw data from said analyzer, and emitting a signal indicating the presence of at least one toxic agent in a water sample.